In the Claims

1. (Currently amended) In a communication system, a method of optimizing MPEG-7 transmissions of content descriptions between a server and one or more clients, a content description in a first ADL (application descriptive description language), which is a subset of MPEG-7a DDL (Description definition language), being translated into binary for communication to a first client, the method comprising;

receiving, by the first client, the binary communication corresponding to the content description in the first ADL; and

translating, by the first client, the binary communication into the content description in the first ADL, the binary communication translated using a decoding codebook that is generated by the first client using a frequency table, and a transform document generated from the DDL by a computer, the transform document for translating MPEG-7the DDL into the first ADL, and the frequency table specifying occurrences for first ADL elements within the content description.

- 2. (Currently amended) The method of claim 1 further comprising:
 generating, by the server, the content description in the first ADL from a content description in the MPEG-7 DDL.
- 3. (Previously presented) The method of claim 1 further comprising: generating, by the server, the transform document.
- 4. (Previously presented) The method of claim 1 further comprising: generating, by the server, the frequency table for translating the content description in the first ADL into the binary communication.
- 5. (Previously presented) The method of claim 1 further comprising: downloading, by the first client, the frequency table and the transform document, prior to receiving the binary communication.
- 6. (Canceled)

- 7. (Previously presented) The method of claim 1 further comprising:

 communicating information carried by the binary communication to a second client via the server.
- 8. (Currently amended) The method of claim 7 further comprising:
 translating the content description in the first ADL into the binary communication;
 forwarding the binary communication to the server;

translating, by the server, the binary communication into the content description in the first ADL;

translating the content description from the first ADL into a content description in the MPEG-7-DDL; and

translating the content description in the MPEG-7-DDL into a second ADL that is different from the first ADL.

- 9. (Previously presented) The method of claim 8 further comprising: translating the content description in the second ADL into a binary communication for forwarding to the second client.
- 10. (Currently amended) A computer-readable <u>storage</u> medium <u>having embedded with</u> executable instructions to cause a computer to perform a method comprising:

receiving, by a first client, a binary communication corresponding to a content description in a first ADL (application description language), the ADL being a subset of MPEG-7a DDL (description definition language); and

translating, by the first client, the binary communication into the content description in the first ADL, the binary communication translated using a decoding codebook that is generated by the first client using a frequency table, and a transform document generated from the DDL by a computer, the transform document for translating MPEG-7the DDL into the first ADL and the frequency specifying occurrences for first ADL elements within the content description.

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11. (Currently amended) The computer-readable <u>storage</u> medium of claim 10, wherein the <u>method-instructions</u> further comprises:

generating the content description in the first ADL from a content description in the MPEG-7-DDL.

12. (Currently amended) The computer-readable <u>storage</u> medium of claim 10, wherein the <u>method-instructions</u> further comprises:

generating, by a server, the transform document.

13. (Currently amended) The computer-readable <u>storage</u> medium of claim 10, wherein the <u>instructions method</u>-further comprises:

generating, by a server, the frequency table for translating the content description in the first ADL into the binary communication.

14. (Currently amended) The computer-readable <u>storage</u> medium of claim 10, wherein the <u>instructions</u> method further comprises:

downloading, by the first client, the frequency table and the transform document, prior to receiving the binary communication.

- 15. (Cancelled)
- 16. (Currently amended) The computer-readable <u>storage</u> medium of claim 10, wherein the <u>instructions method</u>-further comprises:

communicating information carried by the binary communication to a second client via a server.

17. (Currently amended) The computer-readable <u>storage</u> medium of claim 16, wherein the <u>instructions</u> method-further comprises:

translating, by the first client, the content description in the first ADL into the binary communication;

forwarding the binary communication to the server;

translating, by the server, the binary communication into the content description in the first ADL;

translating the content description in the first ADL into a content description in the MPEG-7-DDL; and

translating the content description in the MPEG-7-DDL into a content description in a second ADL that is different from the first ADL.

18. (Currently amended) The computer-readable storage medium of claim 17, wherein the instructions method-further comprises:

translating the content description in the second ADL into a corresponding binary communication for forwarding to the second client.

19. (Currently amended) A communications system comprising:

a server coupled to a network of clients to transmit a binary communication corresponding to a content description in a first ADL (application descriptive description language) to a first client, the first ADL being a subset of MPEG-7a DDL (description definition language), wherein the first client is operable to translate the binary communication into the content description in the first ADL using a decoding codebook generated by the first client using a frequency table and an transform document generated from the DDL by a computer, the transform document for translating MPEG-7the DDL into the first ADL, and the frequency table specifying occurrences for first ADL elements within the content description.

- 20. (Currently amended) The communication system of claim 19, wherein the server is further operable to generate the content description in the first ADL from a content description in the MPEG-7-DDL.
- 21. (Previously presented) The communication system of claim 19, wherein the server is further operable to translate the content description in the first ADL into the binary communication.

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- 22. (Previously presented) The communication system of claim 19, wherein the server is further operable to generate the transform document.
- 23. (Previously presented) The communication system of claim 19, wherein the server is further operable to generate the frequency table for translating the content description in the first ADL into the binary communication.
- 24. (Previously presented) The communication system of claim 19, wherein the server is further operable to communicate information carried by the binary communication to a second client.
- 25. (Currently amended) The communication system of claim 24, wherein the server is further operable to receive the binary communication from the first client, to translate the binary communication into the content description in the first ADL, to translate the content description in the first ADL into a content description in the MPEG-7-DDL, and to translate the content description in the MPEG-7-DDL into a content description in a second ADL that is different from the first ADL.
- 26. (Previously presented) The communication system of claim 25, wherein the server is further operable to translate the content description in the second ADL into a corresponding binary communication for forwarding to the second client.
- 27. (Previously presented) The communication system of claim 19, wherein the first client is operable to receive the binary communication corresponding to the content description in the first ADL.
- 28. (Previously presented) The communication system of claim 27, wherein the first client is further operable to download the frequency table and the transform document prior to receiving the binary communication.
- 29. (Cancelled)